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INFORMATION DISCLOSURE STATEMENT

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P.O. BOX 506, Merrifield, VA 22116, U.S.A.

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FAX TO: ART UNIT: 2644

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FROM: Winston Hsu, PATENT AGENT, REG. NO.: 41,526

SERIAL NO.: 10/065,766

ATTORNEY DOCKET NO.: AOIP00005USA

SUBJECT: INFORMATION DISCLOSURE STATEMENT

TOTAL PAGES: 31 PAGES (INCLUDING COVER PAGE)

Winston Hsu 2004/10/19

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FROM: Winston Hsu, PATENT AGENT, REG. NO. : 41,526

SERIAL NO.: 10/065,766

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AOIP0005USA0_D1_1

PTO/SB/97 (09-04)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Celia Hsieh

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(1) Transmittal Form	1 PAGE
(2) Fee Transmittal	1 PAGE
(3) Information Disclosure Statement	27 PAGE

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/21 (09-04)
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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/065,766	
	Filing Date	11/18/2002	
	First Named Inventor	Ting-Yu Chang	
	Art Unit	2644	
	Examiner Name		
Total Number of Pages in This Submission	29	Attorney Docket Number	AOIP0005USA

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund	<input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Remarks	
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm Name	North America Intellectual Property Corporation	
Signature	<i>Winston Hsu</i>	
Printed name	Winston Hsu	
Date	10/15/2004	Reg. No. 41,526

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:		
Signature		
Typed or printed name		Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1460, Alexandria, VA 22313-1460. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (10-04)

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**FEE TRANSMITTAL
for FY 2005**

Effective 10/01/2004. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT (\$)** 0.00**Complete If Known**

Application Number	10/065,766
Filing Date	11/18/2002
First Named Inventor	Ting-Yu Chang
Examiner Name	
Art Unit	2644
Attorney Docket No.	AOIP0005USA

METHOD OF PAYMENT (check all that apply)☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:

Deposit Account Number	50-3105
Deposit Account Name	North America Intellectual Property Corp.

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 780	2001 395	Utility filing fee	
1002 350	2002 175	Design filing fee	
1003 550	2003 275	Plant filing fee	
1004 790	2004 395	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			(\$) 0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent	-20** =	X	
Multiple Dependent	-3** =	X	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1202 18	2202 9	Claims in excess of 20	
1201 88	2201 44	Independent claims in excess of 3	
1203 300	2203 150	Multiple dependent claim, if not paid	
1204 88	2204 44	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)			(\$) 0.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 430	2252 215	Extension for reply within second month	
1253 980	2253 490	Extension for reply within third month	
1254 1,530	2254 765	Extension for reply within fourth month	
1258 2,080	2255 1,040	Extension for reply within fifth month	
1401 340	2401 170	Notice of Appeal	
1402 340	2402 170	Filing a brief in support of an appeal	
1403 300	2403 150	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,370	2501 685	Utility issue fee (or reissue)	
1502 490	2502 245	Design issue fee	
1503 660	2503 330	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 60	1807 60	Processing fee under 37 CFR 1.17(q)	
1808 180	1808 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 790	2809 395	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 790	2810 395	For each additional invention to be examined (37 CFR 1.129(b))	
1801 790	2801 395	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)**SUBMITTED BY**

Name (Print/Type)	Winston Hsu	Registration No. (Attorney/Agent)	41,526	Telephone	886-2-89237350
Signature	<i>Winston Hsu</i>	Date	10/15/2004		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/C&A (08-03)

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Substitute for form 1449/PTO

(Use as many sheets as necessary)

Sheet	1	of	1
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Complete if Known

Application Number	10/065,766
Filing Date	11/18/2002
First Named Inventor	Ting-Yu Chang
Art Unit	2644
Examiner Name	
Attorney Docket Number	AOIP0005USA

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**RECEIVED
CENTRAL FAX CENTER****OCT 20 2004****PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

5 Applicant: Ting-Yu Chang
Filing Date: 11/18/2002 Art Unit: 2644
Serial No.: 10/065,766 Docket No.: AOIP0005USA

10 Title: COMPUTER SYSTEM WITH A PREAMPLIFIER CIRCUIT MOUNTED
ON A MOTHERBOARD

To: The Commissioner of Patents
P.O. BOX 1450
Alexandria, VA 22313-1450

15 Subject: Information disclosure statement Under
37C.F.R. §1.56.

Dear Sir/Madam:

20 This is an Information Disclosure Statement in
accordance with the duty to disclose information material
to patentability under 37 C.F.R. §1.56. The applicant wishes
to make of record the items listed on the accompanying form
25 PTO/SB/08. It is respectfully requested that the examiner
initials the cited reference on the form and that it be made
of record in the application and that a copy of the initialed
form be sent to the applicant with the next communication
from the examiner.

30 Since the IDS is filed before the mailing date of a first
Office action on the merits, consideration of the

information disclosure statement is hereby requested according to 37C.F.R. §1.97(b). The prior art patent Taiwan (patent no.446899) contained in the information disclosure statement was mailed from Taiwan Intellectual Property Office on Aug. 26, 2004 for a counterpart Taiwanese application. Applicant sincerely hopes that the examiner can consider the item contained in the information disclosure statement.

Part of specification of Taiwan patent no.446899 cited by examiner:

Referring to FIG4, it is a schematic diagram showing the controlling circuit of tone quality programmed on a motherboard. A AC 97 controller 52 of a south bridge chipset 50 coupled to a codec 60 on the motherboard that receives a controlling signal from the AC 97 controller 52 to generate audio signal. The audio signal is transferred to a input terminal of the tone quality controlling chipset 70 illustrated in FIG2, indicated as pin 4 and 25, so as to change the audio signal into a output signal with effect of stereo, low tone, high tone, left sound track and right sound track, output by a output terminal of the tone quality controlling chipset 70, indicated as pin 13 and 16.

An amplifier 80 amplifies and transfers the output signal of the tone quality controlling chipset 70 to an output line 90 to produce audio frequency output into player external. The above-mentioned audio quality controlling is obtained by a game port 54 of the south bridge chipset 50 to produce controlling signal for the tone quality controlling chipset 70. A data signal and a time impulse signal transferred by game port 54 are input into a pin of time impulse CLK and a pin of DATA 28 of the tone quality controlling chipset 70 to

finish the invention of the controlling circuit of tone quality programmed on a motherboard.

ABSTRACT :

5 A controlling circuit of tone quality is programmed on a motherboard. A tone quality controlling chipset is coupled to between the codec and amplifier on the motherboard so as to receive the audio signal generated from the codec and thereon use game port to generate time impulse signal and data
10 signal for controlling tone quality controlling chipset to make the tone quality controlling chipset generate output signal for the receipt and amplification of amplifier, and further the high tone quality is output by a speaker.

15 What is claimed is:

1. A controlling circuit of tone quality programmed on a motherboard comprising:
 - a codec for generating multiple audio signals;
 - a tone quality controlling chipset coupled to the codec
20 for receiving the multiple audio signals and generating multiple output signals by a time impulse signal and a data signal for controlling tone quality;
 - a amplifier coupled to the tone quality controlling chipset for receiving a output signal and amplifying
25 the output signal; and
 - a controlling port coupled to the tone quality controlling chipset for generating the time impulse signal and the data signal to control tone quality.

Respectfully submitted,

5 Winston Hsu

Date: October 15, 2004

Winston Hsu, Patent Agent No. 41,526

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U.S.A.

10 Facsimile: 806-498-6673

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(Please contact me by e-mail if you need a telephone communication and I will return your call promptly.)